

electrode; and

a third MOS transistor formed on a third device region of said semiconductor substrate, said third MOS transistor having a third gate insulation film of third thickness and a third gate electrode;

said first thickness being smaller than said second thickness, said second thickness being smaller than said third thickness,

pr¹ said first through third gate electrodes having a substantially identical height, wherein said first and third gate electrodes have a structure in which a second silicon film is stacked on a first silicon film, said second gate electrode has a structure in which said second silicon film is stacked on a third silicon film, and wherein said non-volatile memory is formed of a floating gate electrode formed of said third silicon film and a control gate electrode formed on said floating gate electrode via an insulation film and having a structure in which said first silicon film and said second silicon film are consecutively stacked.
